## 10/516,079

FILE 'HOME' ENTERED AT 12:37:38 ON 03 AUG 2006

SINCE FILE ENTRY 4.62 cost in U.S. DOLLARS FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 12:50:32 ON 03 AUG 2006
USE IS SUBJECT TO THE TERNS OF YOUR STY CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERNS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINIII data file provided by InfoChem. STRUCTURE FILE UPDATES: 1 AUG 2006 HIGHEST RN 897851-29-5 DICTIONARY FILE UPDATES: 1 AUG 2006 HIGHEST RN 897851-29-5 New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tagg indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

-> s mcmpcfttdhqmarkcddccggkgrgkcygpqclcr/sqep
5 MCMPCFTTDHQMARKCDDCCGGKGKGKCYGPQCLCR/SQEP
6491 SQL=36
5 MCMPCFTTDHQMARKCDDCCGGKGRGKCYGPQCLCR/SQEP
L2 \$ MCMPCFTTDHQMARKCDDCCGGKGRGKCYGPQCLCR/SQEP
(MCMPCFTTDHQMARKCDDCCGGKGRGKCYGPQCLCR/SQEP AND SQL=36)

TOTAL SESSION 20.04 -> b caplus uspatfull pctfull biosis scisearch medline
COST IN U.S. DOLLARS
ENTRY
ENTRY
15.42

FILE 'CAPLUS' ENTERED AT 12:52:22 ON 03 AUG 2006
USE IS SUBJECT TO THE TERMS OF YOUR STR CUSTOWER AGREEMENT.
CHEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (G.) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 12:52:22 ON 03 AUG 2006 CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'PCTFULL' ENTERED AT 12:52:22 ON 03 AUG 2006 COPYRIGHT (C) 2006 Univentio

FILE 'BIOSIS' ENTERED AT 12:52:22 ON 03 AUG 2006 Copyright (c) 2006 The Thomson Corporation

cell

US 2005537234 T2 20051208 JP 2004-508829 ZVUJULE SEARCH S 2005-516079 SUCCESSION S 2005-384171P P 20020531 US 2005-516079 20051102 US 2002-384171P P 20020637 US 2005-516079 20051102 US 2002-406031P P 20020827 US 2003-405031P P 20030827 US 2003-405031P P 20030827 US 2003-405031P P 20030827 US 2003-405097 US 2003-4050827 US 2003-4050827 US 2003-4050827 US 2003-405082 US 2003-40508 Disclosed is a method of diagnosing and treating myeloproliferative or lymphoproliferative cell disorders, such as cancer, with chlorotoxin and/or derive,, analogs or fragments thereof, which are effective to bind to an inhibit abnormal myeloid or lymphoid cell growth. The chlorotoxin may be conjugated to a second protein, e.g., an antibody binding to a myeloid or lymphoid cancer cell-specific epitope, or a stabilizing protein such as human serum albumin. Alternatively, the chlorotoxin may be conjugated to a cytotoxic agent or chemotherapeutic agent. 20030602 20030602 20030602 SE, MC, PT, HU, SK AZ, BY, EE, ES, SK, TR, TD, TG 4878F AM, DK, SI, Combination chemotherapy with chlorotoxin for treating cancer Alvarez, Vermont L.; Grimes, Carol A.; Gonda, Matthew A. Transmolecular, Inc., USA PCT Int. Appl., 100 pp.

CODEN: PIXXD2 E, BZ, KZ, MI, SE, APPLICATION NO. Combination chemotherapy with chlorotoxin Alvarez, Vernon L. Birmingham, AL, UNITED STATES Gonda, Matthew A. Birmingham, AL, UNITED STATES Grimes, Carol A. Birmingham, AL, UNITED STATES US 200608899 Al 200602 (10) WO 2001-516079 Al 20030602 (10) WO 2003-US17410 20030602 (10) CO03-051710 PCT 371 date US 2002-406033P 20020827 (60) ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN 2003:971907 CAPLUS 140:23219 AT, AU, AZ, B
DE, IN, DM, D
MA, MD, MC, M
NC, NN, SC, SD, S
MW, MZ, S
MW 20031211 ANSWER 3 OF 3 USPATFULL ON STN 2006:104796 USPATFULL 4953535666 AT, BE, C IE, SI, I CA 2487425 AU 2003240496 EP 1553962 PATENT NO. English ä Patent LB ANSWE AN 2003:
DN 140:2
DN 140:2
III Combi
IN Alvar
PA Trans
SO PCT I
CODEN
CODEN
LA ENGI! RE. CNT PRAI PRAI æ Ą ΡI RIAR PI AI

```
Use of chlorotoxin in diagnosis and treatment of myeloid and lymphoid cell
                  Ö,
Utility
APPLICATION
MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, 20004, US
Number of Claims: 17
Exemplary Claim: 1
15 Drawing Page(s)
                                                                                                                                                                                                                                                                                                                                                                                          20050406
                                                                                                                                                                                                                                                                                                                                                                                                               SE, SE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EXF
                                                                                                                                                                                           FILE 'CAPLUS, USPATFULL, PCTFULL, BIOSIS, SCISEARCH, MEDLINE' ENTERED 12:52:22 ON 03 AUG 2006
                                    ECL. Exemplary common the page (s)
DRAWN 15 Drawing Page (s)
DRAWN 15 Drawing Page (s)
DA.CNT 2387
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention includes compositions and methods for combination chemotherapy, particularly involving at least one chemotherapy, particularly involving at least one chemotherapeutic agent used in combination with chlorotoxin or a derivative thereof.
                                                                                                                                                                                                                                                                                                                                                                                                                              X X X X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SE E
                                                                                                                                                                                                                                                                                                                                                                                                               RE,
KP,
VX,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 7 7 8
8 7 7 8
                                                                                                                                                                                                                                                                                                                                                                                                                BY,
KM,
KM,
VC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8,5,5,8
                                                                                                                                                                                                                                                                                                                                                                                                               8 E 5 3
                                                                                                                                                              FILE 'REGISTRY' ENTERED AT 12:50:32 ON 03 AUG 2006
5 S MCMPCFTTDHQMARKCDDCCGGKGRGKCYGPQCLCR/SQEP
5 S MCMPCFTTDHQMARKCDDCCGGKGRGKCYGPQCLCR/SQEP
                                                                                                                                                                                                                                                                                                                                                                                          WO 2005-US11523
                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NO.
                                                                                                                                                                                                                                                                                                                                                                                                               KE,
KE,
SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SZ,
                                                                                                                                                                                                                                                                                      ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN 2005:1154420 CAPLUS
                                                                                                                                               (FILE 'HOME' ENTERED AT 12:37:38 ON 03 AUG 2006)
                                                                                                                                                                                                        53 S. L2
46 DUP REMO L3 (7 DUPLICATES REMOVED)
18 S. L4 AND CANCER
24 S. L4 AND TUMOR?
24 S. L6 OR L5 AND CHEMOTHERAP?
3 S. L6 AND CHEMOTHERAP?
3 S. L5 AND CHEMOTHERAP?
                                                                                                                                                                                                                                                                                                                                                                                                               SI,
II,
CI,
                                                                                                                                                                                                                                                                                                                                                                                                               BB,
DZ,
TS,
WA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SD,
IS,
                                                                                                                                                                                                                                                                                                                                                                                                               PT, WA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GE, TE
                                                                                                                                                                                                                                                                                                                           Alvarez, Vernon L.; Gonda, Matthew A.
Transmodecular, Inc., USA
PCT Int. Appl., 52 pp.
CODEN: PIXKD2
                                                                                                                                                                                                                                                                                                                                                                                              20051027
20060323
AU, AZ,
DE, DK,
ID, IL,
LU, LV,
PH, PL,
TR, TT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AZ, EB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RU,
GR,
                                                                                                                                                                                                                                                                                                                                                                                                              TREES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3,5,6,5
                                                                                                                                                                                                                                                                                                                                                                                 KIND
                                                                                                                                                                                                                                                                                                                                                                                         AA, AB, AB, CU, CU, HR, OM, TA, TA, TA, TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KE,
RZ,
SK,
                                                                                                                                                                                                                                                                                                                                                                                                               ZXE GRE
                                                                                                                                                                                                                                                                                                                                                                                                                                                               GW,
KG,
SI,
                                                                                                                                                                                                                                                                                                                                                                                                              d 19 1-3 bib abs
                                                                                                                                                                                                                                                                                                                                                                                               WO 2005099774
WO 2005099774
                                                                                                                                                                                                                                                                                                       143:432633
                                                                                                                                                                                                                                                                                                                                                                                 PATENT NO.
                                                                                                                                                                                                                                                                                                                    cancers
                                                                                                                                                                                                                                                                                                                                                                  English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RW:
                                                                                                                                                                                                                                                                                                                                                           Patent
                                                                                                                                => d his
                                                                                                                                                                                                                                                                                                                                                         DT Pat
LA Eng
FAN.CNT
 DT
FS
LREP
                                CLMIN
                                                                                                                                                                                                                                                                        ٨
                                                                                                                                                                                                                                                                                                                          PA SO
                                                                                                                                                                                                                                                                                      TORE
                                                                                                                                                                       SE
                                                                                                                                                                                                            24237282
```

MR, NE, SN, TD, TG 20040406 bisclosed is a method of diagnosing and treating myeloproliferative or lymphoproliferative cell disorders, such as cancer, with the chlorotoxin and/or derivs., analogs or fragments thereof, which are chlorotoxin and/or derivs., analogs or fragments thereof, which are chlorotoxin may be conjugated to a second protein, e.g., an antibody binding to a myeloid or lymphoid cancer cell-specific epitope, or a stabilizing protein such as human serum albumin. Alternatively, the chlorotoxin may be conjugated to a cytotoxic agent or JP 200553724 TT. 1.7 C. 20030602 CA, CH, CN, GD, GE, GH, LC, LK, LR, NO, NZ, OM, TN, TR, TT, AM, AZ, BY, DK, EE, ES, SI, SK, TR, SN, TD, TG 20030602 20030602 SE, MC, PT, HU, SK 20030602 Alvarez, Vermont L.; Grimes, Carol A.; Gonda, Matthew A. Transmolecular, Inc., USA PCT Inc., Appl., 100 pp. CODEN: PIXXD2 Combination chemotherapy with chlorotoxin for treating APPLICATION NO. 2006:104796 USPATFULL
Combination rehmechterapy with chlorotoxin
Alvarez, Vernon L. Birmingham, AL. UNITED STATES
Gonda, Matthew A. Birmingham, AL. UNITED STATES
Grimes, Carcol A. Birmingham, AL. UNITED STATES
US 2006088899 Al 20060427
US 2003-516079 Al 20030602 (10) ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN 2003:971907 CAPLUS ANSWER 3 OF 3 USPATFULL on STN **E** 5 4953753689 WO 2003101474

W: AB, AG, L
CO, CR, HR, F
CLS, LT, I
PH, PL, E
TZ, W, G
RW: GH, GM, K
KG, KG, KG
F F, FR, G R: AT, BE, IE, SI, CA 2487425 AU 2003240496 EP 1553962 PATENT NO. 140:23219 English cancer Patent COD DT Pat LA Eng FAN.CNT RE.CNT PRAI AB PRAI SAU IDAG ΡI ą SHER PI

=> s 14 and (cancer or tumor or melanoma or carcinoma or hodgkin? or sarcoma or leukemia or lymbona or neoplas?)
L12 27 L4 ADM (CANCER OR TUMOR OR MELANOMA OR CARCINOMA OR HODGKIN?
OR SARCOMA OR LEUKEMIA OR LYMPHOMA OR NEOPLAS?) Utility
APPLICATION
MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC, 20004, US => s 110 and (cancer or tumor or melanoma or carcinoma or hodgkin? or sarcoma leukemia or lymphoma or neoplas?) iii s ii0 aND (CANCER OR TUMOR OR MELANOMA OR CARCINOMA OR HODGKIN? OR SARCOMA OR LEUKEMIA OR LYMPHOMA OR NEOPLAS?) PILE 'CAPLUS, USPATFULL, PCTFULL, BIOSIS, SCISEARCH, MEDLINE' ENTERED AT 12:52:22 ON 03 AUG 2006
53 S.L.2
46 DUP REMO L3 (7 DUPLICATES REMOVED)
18 S.L.A.A.D. CANCER
24 S.L.A.A.D. TUMOR?
24 S.L.G. OR L5. AND CHEMOTHERAP?
3 S.L.G. AND CHEMOTHERAP? Radiation dosimetry of 1311-chlorotoxin for targeted radiotherapy in glioma-bearing mice Shen, Sui; Khazaeli, M. B.; Gillespie, G. Yancey; Alvarez, Vernon L. Department of Radiation Oncology, Birmingham, AL, USA Journal of Neuro-Oncology (2005), 71(2), 113-119 CODEN: JNODD2; ISSN: 0167-594X This invention includes compositions and methods for combination chemotherapy, particularly involving at least one chemotherapeutic agent used in combination with chlorotoxin or a derivative thereof. 5 S MCMPCFTTDHQMARKCDDCCGGKGRGKCYGPQCLCR/SQEP 5 S MCMPCFTTDHQMARKCDDCCGGKGRGKCYGPQCLCR/SQEP FILE 'REGISTRY' ENTERED AT 12:50:32 ON 03 AUG 2006 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN PCT 371 date (FILE 'HOME' ENTERED AT 12:37:38 ON 03 AUG 2006) ECL Exemplary Claim: 1
DRWN 15 Drawing Page(s)
LN.CNT 2387
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention includes composition 20030602 20051102 1 20020531 (60) 20020827 (60) CAS INDEXING IS AVAILABLE FOR THIS PATENT 18 L4 AND LABEL? Number of Claims: 17 Exemplary Claim: 1 15 Drawing Page(s) 2005:1340302 CAPLUS US 2002-384171P US 2002-406033P WO 2003-US17410 => d lll 1-18 bib abs => s 14 and label? 144:249518 Springer => d his LREP CLAN TRACI 110 SCS ЬB 525255 EE

CA, CH, CN, GD, GE, GH, LC, LK, LR, NO, NZ, OM, TN, TR, TT,

APPLICATION NO.

PATENT NO.

PI

English

DT Pat LA Eng FAN.CNT

Patent

Treatment of cell proliferative disorders with chlorotoxin Alvarez, Vernon L.; Gonda, Matthew A. Transmolecular Inc., USA CODEN: PIXXD2 CODEN: PIXXD2

ANSWER 3 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN 2003:971908 CAPLUS

140:23277

AM, AZ, BY, DK, EE, ES, SI, SK, TR, SN, TD, TG 20030602

ZW, DE, SE, NE,

A 1 20031211 W0 2003-1917411 B 1 20131211 W0 2003-1917411 B 1 20131211 W0 2003-1917411 B 1 2 200202521 W 2 2003-1917411 B 1 2 200202521 W 2 2003-191741 B 1 2 200202521 W 2 2003-191741 B 1 2 200202521 W 2 2003-19174 B 1 2 20020521 W 2 2003-19174 B 1 2 20020521 W 2 2003-19174 B 2 20020521 W 2 2005-522810

468446866

20030602 20030602 SE, MC, PT, HU, SK

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT AM, DK, SI, Combination chemotherapy with chlorotoxin for treating cancer Alvarez, Vermont L.; Grimes, Carol A.; Gonda, Matthew A. Transmolecular, Inc., USA PCT Int. Appl., 100 pp. CODEN: PIXXD2 ZW, DE, ZG, APPLICATION NO. PY, CER, XFP, FR. ANSWER 4 OF 18 CAPLUS COPYRIGHT 2006 ACS ON STN 2003:971907 CAPLUS 20031211 AU, AZ, DK, DM, IN, IS, MD, MG, SC, SD, VC, VN, MZ, SD, TM, AT, IE, IT, AT, UZ, UZ, HU, KIND AM, AM, A CZ, D ID, I ID, I IV, K ILS, P GR, I 45535556 866675566 PATENT NO. 140:23219 English Patent DT Pat LA Eng FAN.CNT SOBILINALI Ιđ US 2003-524884P P 20031126
Disclosed is a method of treating cell proliferative disorders, such as cancer, with ames. of chlorotoxin and/or derivs., analogs of fragments thereof, which are effective to bind to phosphoinositol phospholipids. The p-domain peptide of chlorotoxin, KGROKCYGPQ, bound to multiple species of phosphatidylinositols, including mono-, bis- and tris-phosphates. 

RW:

PRAI AB

US 2006166892
A1 20060727
US 2005-522810
BRAI US 2002-384171P
US 2002-384171P
US 2002-406033P
US 2002-406033P
WO 2003-US17411
WO 2003-US174111
WO 2003-US1741111
WO 2003-US1 18588 BY, ES, TR, R. K. AZ, EE, SK, 

SN, TD, TG 20030602 20030602 20030602 SE, MC, PT, HU, SK 20030602 2003102 RE, NE, GN, GQ, GW, ML, MR, N 1 CA 2003-2487425 9 AU 2003-244046 0 EP 2003-731504 GB, GR, IT, LI, LU, N C, CY, AL, TR, BG, CZ, E 1 JP 2004-508529 1 US 2005-516079 DK, ES, FR, G FI, RO, MK, C 20051208 1 20060427 20020531 CM, GA, (20031211 20031219 20050720 IJ, CF, BF, BJ, ( CA 2487425 AU 2003240496 EP 1553962 R: AT, BE, IE, SI, also claimed. PRAI AB

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE.CMT

AN 2000:756551 CAPLUS COPYRIGHT 2006 ACS on STN AN 2000:756551 CAPLUS BN 131:307331 IN Diagnosis and treatment of neuroectodermal tumors Sonthelmer, Harald J.; Lyons, Susan A. IN Diagnosis and treatment of neuroectodermal tumors Sonthelmer, Harald J.; Lyons, Susan A. BY UAR Research Foundation, USA SON CODEN: PIXXD2  PATENT NO.  PATENT NO.  W. AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CZ, DE, KR, KK, KK, KK, KK, KZ, LC, LK, LK, LS, LT, LU, LV, MD, MG, MK, MM, MK, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, MM, MK, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, MG, MC, MC, MC, MC, MC, MC, MC, MC, MC, MC		ISWER 5 OF 100:756551	8	S	รถ	8	RIG	5	ď	֝֟֝֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	į	Ë					
2000/36551 CAPLUS  133:30731  Diagnosis and treatment of neuroectodermal tumors  Sontheimer, Hazald J.; Lyons, Susan A.  Sontheimer, Hazald J.; Lyons, Susan A.  CODEN: PIXXD2  Patent  English  COT 1  NO 2000-051045  NO 2000-05104  NO 200		00:756551								ç	3	4					
133:1307313			5	rns													
Diagnosis and treatment of neuroectodermal tumors Sontheimer, Harald J; Lyons, Susan A. UAB Research Foundation, USA PCT Int. Appl., 56 pp. CODEN: PIXXD2 PATENT NO.  MIND DATE  MO 20000-02310433  PATENT NO.  MIND DATE  MO 20000-02310433  MIND DATE  MO 20000-02310433  MIND DATE  MO 20000-02310433  MIND DATE  MO 20000-02310433  MIND DATE  MO 2000-02310433  MIND DATE  MO 2000-02310434  MIND DATE  MO 2000-02310434  MIND DATE  MO 2000-0231044687  MIND DATE  MO 2000-023104687  MIND DATE  MO 2000-0231040887  MIND DATE  MO 2000-0231040887  MIND DATE  MO 2000-0231040887  MIND DATE  MO 2000-0231040887  MO 2000-0231040889  MO 2000-0231040889  MO 2000-023104089  MO 2000-023		13:307331															
Sontheimer, Harald J.; Lyons, Susan A.  UAB Research Foundation, USA Patent English CAT INC. SAPI. 56 pp. Patent English CAT 3  PATENT NO.  W. AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CYU, CZ, CX, CK, KR, KZ, LC, LK, LR, LR, LY, LL, LU, LV, MD, MG, MK, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, ST, SK, LT, LY, LW, MC, MK, KK, LS, MW, SD, SH, SE, ST, SK, SK, SK, SK, SK, SK, SK, SK, SK, SK		agnosis an	d tr	eatn	ent	ų	neur	Secto	der		Cumo	r s					
UNB Research Foundation, USA PCT INC. Appl., 56 pp. CODEN: PIXXD2 PACTOR. PALENT NO.  W. M. DATE M. O2000062807 W. M. DO001026 W. M.	IIA	ontheimer,	Hara	1d J	1.:1	Nov	S. St	ısan	Ä								
PATENT INC.  PATENT NO.  WO 2000-USIO163  WO 2000-USIO453  WO 2000  WO 2		B Research	Fou	ndat	ion												
CODEN: PIXXD2 PATENT MAL, AM, AT, AU, AZ, BA, BB, BB, BB, BB, BB, BB, BB, BB, BB	۵	Trut Ann		7													
Patent English   Cart	: 8	DEN: PIXXD	: .	2	į.												
CALL	á																
PATENT NO.   CAN DATE   APPLICATION NO.   DATE		יבוור															
CATE   1		glish															
PATENT NO. KIND DATE APPLICATION NO. DATE 1000000000000000000000000000000000000	5	m															
WO 2000062807 Wi AL, AM, AT, AU AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, KE, KG, KR, KR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LH, LS, LT, LU, LU, MD, MG, MK, MW, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TT, UA, UG, UZ, VW, YU, ZA, ZW  KWI GH, GM, KE, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, MR, NR, ND, TG, CI, CM, GA, GN, GW, ML, MR, NR, ND, TG, CI, CM, GA, GN, GW, ML, MR, NR, ND, TG, CI, CM, GA, GN, GW, ML, MR, NR, ND, TG, CI, CM, GA, CO, GOOTOGE CA 2000-2365533  AA 20001026 AB 20001026 CA 2000-2365533 200000 BD 2000103 AB 20000103 AB 20000103 AB 20000103 AB 200000103 AB 20000000103 AB 200000103 AB 2000000103 AB 200000000000000000000000000000000000	Ā	TENT NO.			KIND	_	DATE		~	PPL	CAT	NOI	Š.		2	ATE	
WO 2000062807 Wi AL, AN, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CT, DK, EE, ES, FI, GB, GD, GE, GH, GN, HR, HU, Dr, IL, IIV, IZ, KB, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MX, NO, NZ, PL, FT, RO, NU, SD, SE, SG, SI, SK, L, TJ, TT, TT, UJ, UG, UZ, VN, YU, ZA, ZN, CG, CI, CM, GA, GN, SD, SL, SZ, TZ, UG, ZN, AT, BE, CH, CY, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, ML, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, ME, NE, NE, TT, CD, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, ME, NE, NE, TT, CD, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, ME, NE, NE, TT, CD, MC, NL, PT, SE, BF, BJ, 20010102  SO00146749 AN 2000044687 AS 2000102 AN 2000-24687 AN 2000044687 AS 2000102 CR 2000-226553 AN 2000065 BD 2001102 AN 2000-226105 CR IE, SI, LT, LV, FI, RO, MK, CY, AL  TR, SI, LT, LV, FI, RO, MK, CY, AL  TR, SI, LT, LV, FI, RO, MK, CY, AL  TR, SI, LT, LV, FI, RO, MK, CY, AL  TR, SI, LT, LV, FI, RO, MK, CY, AL  TR, SI, SI, LT, LV, FI, RO, MK, CY, AL  TR, SI, SI, LT, LV, FI, RO, MK, CY, AL  TR, SI, SI, LT, LV, FI, RO, MK, CY, AL  TR, SI, SI, SI, SI, SI, SI, SI, SI, SI, SI	;				į		;	:	•						•		:
Wi AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CD, CZ, PK, KG, KC, KT, KK, KZ, LC, LK, LM, LM, HI, ID, LI, IN, IS, KK, KK, KA, KK, KK, KE, CL, LK, LM, LM, LM, LM, DM, MG, MK, MK, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TT, UA, UG, UZ, VW, VU, ZA, ZM, CG, SI, SK, SL, TJ, TT, UA, UG, UZ, VW, VU, ZA, ZM, CG, SI, SK, SI, TT, UA, CG, CI, CM, GA, CM, CM, MR, NE, SN, TD, TG, CG, CI, CM, GA, CM, CM, MR, NE, SN, TD, TG, CG, CI, CM, CA, CM, CM, MR, NE, SN, TD, TG, CG, CI, CM, CA, CM, CM, MR, NE, SN, TD, TG, CG, SE, SI, SK, SI, SE, SE, SE, SE, SE, SE, SE, SE, SE, SE	3	200006280	7		Al		20001	1026	_	20	200-1	0230	453		7	0000	419
DK EE, ES, FI GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KC, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MW, NO, NG, PL, TR, NB, SD, SE, SG, SI SK, ST, TJ, TR, NB, CM, SE, SE, SG, SI SK, ST, TJ, TR, CM, CM, SD, SE, SG, SI SK, ST, TJ, TR, CM, CM, SD, SE, SG, SI SK, ST, TJ, CM, CM, SE, ST, TT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  CA, SSS5533 AA 20001020 US 1999-296031 19990, US 6667156 B2 20031223 CA 20000-44687 200000  AU 2000004687 AA 20001026 CA 2000-2365533 200000  AU 2000004687 AB 20001020 CP 2000-926105 200000  EP 1200123 AA 20001020 CP 2000-926105 200000  EP 1200123 AA 20050102 CP 2000-926105 200000  EP 1200123 AA 20001030 CP 2000-926105 200000  EP 2005542403 A 19990411 AP 2000-926105 200000  EP 2000-926103 A 19990411 A 2000-926105 200000  ES 255323 A 102 19990411 A 2000-926105 200000  ES 255323 A 102 102 102 102 102 102 102 102 102 102		Ā	Æ.	AT,	AU.	AZ.	BA.	BB.		BR.	BY.	ð	Đ	ð	8	Č	DE
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MK, MV, NG, NZ, PL, PT, NG, NU, SD, SE, SG, SI, SK, SL, TJ, TR, TT, UM, UG, UZ, VN, YU, ZA, ZW  KW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DK, ES, FI, FR, GB, GR, IE, ITI, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GW, ML, ME, NR, NE, NT, DT, TG  US 2002146749 A1 20021010 US 1999-296031 199900. US 667156 B2 20031023 AA 20001026 CA 2000-2365533 200000. AV 2000044687 A5 2000102 AV 2000-44687 A5 2000102 CA 2000-2365533 200000. US 200003 AN 200004687 A5 2000102 AV 2000-2365533 200000. US 1200123 B1 20051102 AV 2000-926105 200000. US 12, LT, LV, FI, RO, MK, CY, AL. DY 2002542206 EP 2001115 AT 2000-926105 200000. AT 308340 EP 20051115 AT 2000-926105 200000. US 2005031 A 19990421 A 19990421 A 19990421 A 200004499 EP 2000-0511943 200000. US 20000-USIG453 A 19990421 A 200004499 EP 2000-0511943 200000. US 2000-USIG453 A 19990421 A 200004499 EP 2000-0511943 A 20000449 EP 2000-0511943 EP 20000-0511943 EP 200000-0511943 EP 20000-0511943 EP 20000-0511943 EP 200000-0511943 EP 200000000000000000000000000000000000			E.	ES.	FI	GB.	g	GE	품	Š	HR			H	N	SI	
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, RW, CH, CM, CM, LS, MW, ZW, RW, CM, CM, LS, MW, SD, SL, SZ, TZ, WW, RW, CM, CM, LS, MW, SD, SL, SZ, TZ, WW, PT, SE, BF, BJ, CG, CT, CM, CA, CM, CM, LM, MR, NE, SN, TD, TG			ğ	2	ğ	X	ij	Ľ,	I.	S	۲	3		Ę	Ę	¥	2
TR, TT, UA, UG, UZ, VN, YU, ZA, ZH,  RM: GH, GR, KE, LS, MW, SD, SZ, TZ, UG, ZW, AT, BE, CH,  CG, CI, CM, GA, GW, ML, MR, NE, SN, TD, TG  US 2002146749 A1 20021010 US 1999-296031 19990.  US 6667156 B2 20031223 CA 2000-236533 200000.  AU 2000044687 B2 20001102 AU 2000-44687 200000.  AU 777209 B2 20001102 AU 2000-44687 200000.  AU 777209 B2 20001102 AU 2000-44687 200000.  EP 1200123 A1 2005102 EP 2000-926105 200000.  EP 1200123 A1 20051010 AU 2000-926105 200000.  EP 1200123 A1 2005110 AI 2000-611943 200000.  AU 303340 E 20001110 AF 2000-926105 200000.  ES 225323 A 1999041 AP 2000-926105 200000.  ES 225323 A 2000-031040 AP 2000-926105 200000.  EP 2000-031040 A 20000419  The present invention provides fusion proteins for the detection and treatment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for 131a-16arived tumor cells. The current invention has extended the use of chlorotoxin is specific for the whole class pendymonas, medulioblastomas, neuroblastomas, emelingiomas,			×	Q	NZ	Ы	T	80	E	6	G.	Ų.	ď	¥		Ė	Ē
RW: GH, GM, KE, LS, MM, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, CG, ES, FI, FR, GB, GR, IE, ITI, LU MC, NL, PT, SE, BF, BJ, US 2002146749  US 200214687  US 2000144687  US 2000144687  US 2000144687  US 2000144687  US 200014687  US 2000			E	ď	ğ	ZZ.	3	Ŗ	Z	3	į	3	;	i	ì	•	
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, US 2002146749 A1 20021001 US 1999-296031 19990 US 6667156 CA 21365533 AA 20001016 CA 2000-2365533 200000 AU 2000044687 A5 20001026 CA 2000-2365533 200000 AU 2000044687 A5 20001026 CB 2000-34687 AU 77209 B2 20041007 BP 200044687 200000 EP 1200123 A1 2002502 EP 2000-926105 20000 EP 1200123 B1 2005102 EP 2000-926105 200000 EP 120013 B1 2005100 B2 2000-1943 200000 EP 2002542206 E 2005115 A7 2000-621943 200000 EP 225323 T 2000000000000000000000000000000000		£	Æ	9	r	ž		SI.	22	17	ij		TA	R	3	3	
US 2002146749 A1 20021010 US 1999-296031 19990. US 6667156 B2 20031223 C3 2099-296031 19990. US 6667156 A1 20021010 US 1999-296031 19990. US 6667156 AA 20001026 CA 2000-346533 20000. AU 2000044687 B2 20001102 AU 2000-44687 20000. AU 777209 B2 20001102 AU 2000-44687 20000. EP 1200123 A1 2005020 EP 2000-926105 20000. EP 1200123 A1 2005102 EP 2000-926105 20000. AT 308340 E 2 2003110 AT 2000-611943 20000. AT 308340 E 2 2003110 AT 2000-62105 20000. BS 225323 A3 2006601 ES 2000-926105 20000. BY 102 1999-296031 A 20004119 AT 2000-926105 20000. BY 2000-931043 A 19990421 AT 2000-926105 20000. BY 2000-031040 Provides fusion proteins for the detection and treatment of neuroectodermal tumors. Previous work demonstrated that chlorocotomin is specific for 191al-derived tumor cells. The current invention has extended the use of chloroctoxin is specific for 191al-derived tumor cells. The current invention has extended the use of chloroctoxin fusion proteins to treat the whole class pendymonas, medulioblastomes, neuroblastomas, ganglasmas,			ES,	E.	FR	89		HE.	H	3	ξ		H	SE	BF.		
US 2002146749 Al 20021010 US 1999-296031 199900. US 6667156 B2 20031223 CA 2000-2365533 Z00000. AA 20001026 CA 2000-2365533 Z00000. AU 2000044687 AS 2000102 AU 2000-44687 Z00000. AU 777209 B2 20041007 AU 2000-926105 Z00000. EP 1200123 Al 20020502 EP 2000-926105 Z00000. EP 1200123 B1 20051102 EP 2000-926105 Z00000. EP 1200123 B1 Z0051102 CK, AL, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, JP 2002542206 TT Z 2002110 JP 2000-611943 Z00000. AT 308340 EP 20051115 AT 2000-926105 Z00000. ES 225323 T3 Z006061 ES 2000-926105 Z00000. ES 225323 Al 20090601 AP 20000419 The present invention provides fusion proteins for the detection and trachment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for glal-derived or meningioma-derived tumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class peptadymonas, meduloplastomas, neuroblastomas, emaingiomas,			ü	3	8	g	Š.	Ä	Æ	E	SN			į	:		
US 6667156 CA 2305533 CA 2305533 CA 2305533 CA 2305533 A 20001026 CA 22000-2365533 CA 20000044687 A 20001026 CA 23000-2365533 CA 20000044687 B 20001020 EP 2000123 A1 2002502 EP 2000-926105 CE 1200123 B 20051102 CE 1200123 CE 1200123 CE 1200123 CE 2000-926105 CE 20000-926105 CE 20000-92	S	200214674			Ā		2002	1010		S	-666	2960	31		Ä	0666	421
CA 2365533 AA 20001026 CA 2000-2365533 20000. AU 777209 EP 1200123 BB 20041007 EP 1200123 A1 2002502 EP 2000-926105 EP 1200123 B1 20051102 EP 1200123 B2 20025622 EP 2000-926105 EP 1200123 B2 2002542206 T2 20021110 AT 308340 ES 255323 T3 20065611 ES 2000-926105 ES 225323 T3 2006061 ES 2000-926105 T3 2000115 AT 2000-926105 T3 20051115 AT 2000-926105 T3 200010 AT 308340 AT 3080401 AN 2000-126105 T3 20056115 AT 2000-926105 T3 20050115 AT 2000-926105 T3 20050115 AT 2000-926105 T4 STANDAR ST	S				B2		20033	1223									
AU 2000044687  AU 777209  AU 777209  AU 777209  AU 777209  BU 2002652  EP 1200123  BU 2005502  EP 1200123  BU 20055102  EP 1200123  BU 20055102  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE, ST, LT, LV, FI, RO, MK, CY, AL  JP 2002542206  AI 308340  ES 225323  AU 51999-296011  A 1999421  AN 20000419  The present invention provides fusion proteins for the detection and trachment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for or glial-derived or meningioma-derived tumor cells. The current invention has extended the use of chlorotoxin fusion proteins to treat the whole class neuroectodermal tumors extended the use of chlorotoxin fusion proteins contract the whole class neuroectodermal tumors entract invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, septioms, medulicomas, neuroblastomas, gangliomas, series and a series of contract comes.	ð				Ş		20001	1026	Ĭ		-000	2365	533		7	0000	419
AU 777209 AU 777209 AU 777209 BD 20041007 EP 1200123 AI 20025022 EP 2000-926105 B : AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IS, SI, LT, LV, FI, RO, MK, CY, AL  JP 2002542305 AT 30340 ED 20051115 AT 2000-926105 ED 20051115 AT 2000-926105 ED 20051115 AT 2000-926105 ED 20000 ED 20000 USI AD A	AU		۲		AS		20003	1102	~		-000	4468	7		7	0000	419
EP 1200123 B1 20020502 EP 2000-926105 EP 1200123 R: AT. BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL  JP 2002542206 T2 20051210 JP 2000-561943 2005010 ES 253223 T3 20060601 ES 2000-926105 ES 2053123 A 199990421 A 199990421 A 199990431 A 199990431 A 199904301 A 199904301 The present invention provides fusion proteins for the detection and tractment of neuroectodermal tumors. Previous work demonstrated that chloroctoxin is specific for glial-derived or meningioma-derived tumor cells. The current invention has extended the use of chloroctoxin fusion proteins to treat the whole class neuroectodermal tumors entant invention has extended the use of chloroctoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, medulioblastomas, neuroblastomas, generaliomas, appliamas, meduliomas, meduliomas, neuroblastomas, generaliomas, appliamas, meduliomas, appliamas, meduliomas, meduliomas, neuroblastomas, generaliomas, appliamas, meduliomas, appliamas, meduliomas, meduliomas, meduliomas, meduliomas, meduliomas, neuroblastomas, generaliomas, appliamas, meduliomas, meduliomas, neuroblastomas, generaliomas, meduliomas, meduliomas, meduliomas, neuroblastomas, generaliomas, meduliomas, meduli	¥				B2		2004]	1001							i		
EP 1200123 R: AT. BE, CH, DE, DK, ES, FR, GR, GR, IT, LI, LU, NL, SE, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL  JP 2002542206 T T2 2002110 JP 2000-611943 20000 AT 308340 ES 225323 I US 1999-296031 A 1999-296031 A 20006661 ES 2000-926105 20000 The present invention provides fusion proteins for the detection and tractment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for a gial-derived or meningloma-derived tumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors entered the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class ependymonas, medulioblastomas, meninglomas,	E				A		2002	3502		3P 2	-000	9261	90		7	0000	419
R: AT. BE. CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, TE, SI, IT, LV, FI, RO, MK, CY, AL.  JP 2002542306  AT 30340  E 20051115  AT 2000-926105  ES 255323  AI WO 1999-296031  A 200004019  The present invention provides fusion proteins for the detection and treatment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for glal-derived or meningloma-derived tumor cells. The current invention has extended the use of chlorotoxin is unine successive tumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors end as ench as a gliomas, medulioblastemas, neuroblastomas, gangliomas, medulioblastemas, neuroblastomas,	田	12001			H		2005	1102			:		:		i		:
IE. SI, LT, LV, FI, RO, MK, CY, AL  JP 2002542206 T2 20021310 JP 2000-611943 200000. AT 308340 E 20051115 AT 2000-926105 200000. ES 225323 T3 20060601 ES 2000-926105 20000. NO 2000-9310 A 19990421 WO 2000-0310453 W 20000419  The present invention provides fusion proteins for the detection and treatment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for glial-derived or meningioma-derived tumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors enchance and tumors enchanced the use of neuroectodermal tumors enchanced the use of neuroectodermal tumors enchanced the use of neuroectodermal tumors such as gliomas, meningiomas, meningiomas, medulioblastomas, neuroblastomas, gangliomas,		: AT,	BE,	5	DE,	Ŗ,		FR	8		IT,	Ľ,	Ľ,	ML.	SE.	Ř,	
JP 2002542206 T2 20021110 JP 2000-611943 AT 308340 E 20051115 AT 2000-926105 ES 225323 T3 2006601 ES 2000-926105 WO 2000-US10453 W 20000419 The present invention provides fusion proteins for the detecti tractment of neuroectodermal tumors. Previous work demonstrat that chlorotoxin is specific for glial-derived or meningioma-d tumor calls. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliamas, meningiomas, pepudymonas, medulioblastomas, neuroblastomas, gangliamas,		IE,	SI,	Η,	٠ د	FI,		X,	ชี								
AT 308340 B 20051115 AT 2000-926105 ES 2253223 AI US 1999-296031 A 1999421 MO 2000-19210453 W 2000061 The present invention provides fusion proteins for the detecti treatment of neuroectodermal tumors. Previous work demonstrat that chlorocoxin is specific for glalal-derived or meningioma-d tumor cells. The current invention has extended the use of chloroctoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors such as glalans, whole class neuroectodermal tumors such as glalomas, meningiomas, pepudymonas, medulioblastomas, neuroblastomas, gangliomas,	'n		9		2		2002	1210	•	JP 2	-000	6119	43		Ñ	0000	419
ES 225323 T3 20060601 ES 2000-926105 NO 1999-296031 A 19990421 NO 2000-US10453 W 20000419  The present invention provides fusion proteins for the detecti treatment of neuroectodermal tumors. Previous work demonstrat that chlorotoxin is specific for glial-derived or meningioma-d tumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, ependymonas, medulioblastomas, neuroblastomas, gangliomas,	EA.				Œ		2005	1115	~		000	9261	05		~	0000	419
NUS 1999-296031 W 2000-0310453 W 20000493 The present invention provides fusion proteins for the detection profess to present of neuroectodermal tumors. Previous work demonstrat that chlorocxin is specific for glial-derived or meninghoma-d tumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliances, meningiomas, ependymonas, medulioblastomas, neuroblastomas, ganglioms,	BB				13		2006	1090			-000	9261	90		7	0000	419
WO 2000-USI0453 W 20000419 The present invention provides fusion proteins for the detection The present invention provides fusion proteins for the detection treatment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for glial-derived or meningiona-deritumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, pendymonas, medilioblastomas, neuroblastomas, gangliomas,			31		×		1999(	1421									
The present invention provides fusion proteins for the detection treatment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for glial-derived or meningioma-derit tumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion specific to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, medilioblastomas, neutoblastomas, gangliomas,	3		453		3		2000	0419									
treatment of neuroeccodermal tumors. Previous work demonstrated that chlorotoxin is specific for glal-derived or meningioma-derived tumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, ependymonas, medulloblastomas, neuroblastomas, gangliomas,	AB T	ne present	inve	ntic	rg u	201	des 1	fusic	ğ	rote	ins	for	the (	detec	tion		ים
that chlorotoxin is specific for glial-derived or meningioma-derived tumor cells. The current invention has extended the use of chlorotoxin-cytoctoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, ependymonas, medulloblastomas, neuroblastomas, gangliomas,	ü	eatment of	nen	roec	tode	ina ina	1 tu	nors.	2	revi	Snc	work	dem	onsti	rate	ש	
tumor cells. The current invention has extended the use of chlorotoxin-cytocoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, ependymonas, medulloblastomas, neuroblastomas, gangliomas,	5	at chlorot	oxin	18	spec	ifi	c to	r gli	al-c	deri	ved o	E ZO	ening	3iome	a-de	rive	ď
chlorotoxin-cytotoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, sependymonas, medulloblastomas, neuroblastomas, gangliomas,	3	mor cells.	Ē	e cu	Irrer	it ii	nvent	ion	has	exte	ande	d th	e use	ę,			
neuroectodermal tumors such as gliomas, meningiomas, ependymonas, medulloblastomas, neuroblastomas, gangliomas,	5	lorotoxin-	cyto	toxi	n fr	Bio	n pro	otein	is t	) tr	at	che 1	hole	c Cli	188		
ependymonas, medulloblastomas, neuroblastomas, gangliomas,	ä	uroectoden	ma]	tumo	rs E	uch	as	lion	as.	шеп	ingi	Semo					
chanding, mount of an incut to take the contact of an incut to the contact of the	4	o cuo mondo	E	1130	4	1		1	1		,			,			
	ָטָ <i>י</i>	dilaymonda,	1	777	ar .		18,	nento	o Tas		9	gang	Ě	, 8			

carcinoma of the lung, Ewing's sarcoma, and metastatic tumors in the brain. Also, diagnostic methods are provided for screening neoplastic neuroectodermal tumors.

NT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE.CNT 3

AN 1999:33002 DN 130:335024 TI Method of IIN Ullrich, N PA UAB Resear SO U.S., 34 p CODEN: USX DT Patent LA Endlish	1999:330028 CAPLUS 1190:335024 110:335024 110:335024 111rich, Nicole; Sontheimer, Harald W. U.S., 34 pp. CODEN: USXXAM Entert Coundation, USA Entert Coundation, USA	S ng and ontheim			
	35024 d of diagnosin ch, Nicole; Sc escarch Found 34 pp. USXXAM t	ng and ontheim			
	d of diagnosin ch, Nicole; Sc esearch Found: 34 pp. : USXXAM t	ontheim			
	ch, Nicole; Sc esearch Foundi 34 pp. : USXXAM t	ontheim	reating gli	omas	
	esearch Founda 34 pp. : USXXAM t t	100	er, Harald W.		
	34 pp. : USXXAM t sh	יולין,			
	: USXXAM t sh				
	e sh				
	sh				
FAN. CNT 3					
PATENT NO	T NO.	KIND	DATE	APPLICATION NO.	DATE
		!			-
PI US 59	5905027	æ	19990518	US 1996-774154	19961226
09 Sn	6028174	Æ	20000222	US 1997-980388	19971128
US 63:	6319891	BJ	20011120		19971128
	2002071841	A1	20020613	US 1997-980395	19971128
	6429187	<b>B</b> 2	20020806		
	2002065216	A1	20020530	US 2001-969618	20011004
	6870029	B2	20050322		
	2004141981	A1	20040722	US 2003-686782	20031017
US 20	2005142062	A1	20050630	US 2005-57602	20050215
PRAI US 19	1995-9283P	a,	19951227		
US 19	1996-774154	A3	19961226		
US 19	1997-980395	A3	19971128		
US 19	1999-296031	A3	19990421		
US 20	2001-969618	A3	20011004		
AB The p	resent invent	ion pro	vides a reco	present invention provides a recombinant toxin and monoclonal	oclonal anti
which	specifically	binds	to glial-der	which specifically binds to glial-derived or meningioma-derived	
tumor	cells. Also	provid	ed are vario	ous methods of screeni	ng for
maliq	nant qliomas	and men	ingiomas. I	malignant gliomas and meningiomas. Further provided are methods of	ethods of
, ,	ing myliannat		4001004	transfer majitaning day of the second	Part of

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

Use of chlorotoxin for targeting of primary brain tumors scoceanu, Liliana; Gilesple, Yancey; Khazaeli, M. B.; Sontheimer, Harald Departments of Neurobiology, Brain Tumor Besearch Laboratories-Division of Neurosurgery, University of Alabama at Birmingham, Birmingham, AL, 35294, ANSWER 7 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN 1998:728115 CAPLUS 130:90192 CS AU TI S

Cancer Research (1998), 58 (21), 4871-4879 CODEN: CNREA8; ISSN: 0008-5472 AACR Subscription Office USA တ္ထ

Journal SELB

English

Gliomas are primary brain tumors that arise from differentiated glial cells through a poorly understood mailgnant transformation. Although glioma cells retain some genetic and antigenic features common to glial cells, they show a remarkable degree of antigenic heterogeneity and variable mutations in their genome. Glioma cells have recently been shown to express a glioma-specific chloride ion channel (GCC) that is sensitive to chlorotoxin (CTX), a small peptide purified from Leiurus tuinquestriatus scorpion venom. Using native and recombinant 1251-labeled CTX, we show that toxin binding to glioma cells is

specific and involves high affinity [dissociation constant (Kd) = 4.2 nM] and low affinity (Kd = 660 nM) binding sites. In radioreceptor assays, 1251-labeled CTX binds to a procein with Mr = 72,000, presumably GCC or labeled CTX binds to a procein with Mr = 72,000, presumably GCC or bindstribution exples. Were obtained using 1251- and 1311-labeled CTX injected into severe combined immunodeficient mice bearing xenografted CTX injected into severe combined immunodeficient mice bearing xenografted gliomas. CTX selectively accumulated in the brain of tumor bearing mice with calculated brain: muscle ratios of 56.4% of injected dose/g (1D/g), as compared to 12.4% 1D/g) in control animals. In the tumor bearing severe combined immunodeficient mice, the vast majority of the brain-associated radio-excivity was localized within the tumor (tumor muscle ratio, 3).13% 1D/g). Contralateral brainmuscle ratio, 6.6% 1D/g). Moreover, 1311-labeled CTX distribution, visualized through in vivo imaging by gamma ray camera scans, demonstrates specific and persistent intratumoral localization of the radioactive ligand. Immunohistochem. studies using blotinylated and fluorescently tagged CTX show highly selective staining of glioma cells in vitro, in situ, and in sections of patient biopsies. Comparison tissues including normal human brain, kidney, and colon were consistently neg, for CTX immunostaining. These data suggest that CTX and CTX-conjugated mols. The persist with diagnostic and therapeutic potential.

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

RE. CNT

19961227 MC, NL, PT, 19961227 19961227 SE, MC, PT, 19961227 RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, 2249351
A1 19970710 CA 1996-2249351
O722399
A1 199710728 AU 1997-2399
A1 19991103 EP 1996-946129
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, LU, NL, WO 1996-US20403 APPLICATION NO. ANSWER 8 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN Method of diagnosing and treating gliomas Sontheimer, Harald W.; Ullrich, Nicole UAB Research Foundation, USA PCT Int. Appl., 81 pp. CODEN: PIXXD2 19970710 DATE KIND A1 ₿ **Ĕ** 1997:505749 CAPLUS B, G W: AU, C RW: AT, B CA 2249351 AU 9722399 EP 953153 127:119322 PATENT NO. WO 9724619 Patent English LIII ANSWAN 1997
AN 1997
DN 127;
TI METH
IN SONTH
PA UAB
SO PCT
CODE
DT PATE
LA ENGL Ы

SE

US 1995-2839 W 19951227
We 1996-US20403 W 19961227
The present invention relates generally to the fields of cell physiol., neurol. and neuro-oncol. More specifically, the present invention relates to a novel method of detection of the membrane protein "glioma chloride channel" for use as a specific tumor marker for the diagnosis and treatment of gliomas and meningiomas. The invention describes the expression of this chloride conductance with unique properties that selectively characterizes tumor-derived cells of glial origin. Whole-cell patch-clamp techniques were used to characterize the biophys. and pharmacol. properties of chloride channels in primary cultures and acutely isolated cells from biopsies of human astrocytomas and established g

PRAI

SHER

Diagnosis and treatment of neuroectodermal tumors
Sontheimer, Harald W., Birmingham, AL, UNITED STATES
Sontheimer, Harald W., Birmingham, AL, UNITED STATES
Sontheimer, Harald W., Birmingham, AL, UNITED STATES
UNB Research Foundation (U.S. corporation)
US 2004141981
Al 20040127
Al 20041017 (U.S. corporation)
Division of Ser. No. US 1999-296031, filed on 21 Apr 1999, GRANTED, Pat.
No. US 6667156 Continuation-in-part of Ser. No. US 1996-774154, filed on 26 Dec 1996, GRANTED, Pat. No. US 5905027

INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 11 OF 18 USPATFULL on STN 2004:184098 USPATFULL

I I I I

PA PI AI RLI

ANSWER 9 OF 18 USPATFULL on STN 2006:104796 USPATFULL COMBINATION CHEMOTHERADY WITH CHlorotoxin Alvarez, Vernon L. Birmingham, AL, UNITED STATES

CLMN Number of Claim: 1

ECL Exemplary Claim: 1

DRWN 15 Drawing Page(s)

IN.CMT 2387

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention includes compositions and methods for combination chemotherapy, particularly involving at least one chemotherapeutic agent used in combination with chlorotoxin or a derivative thereof. The present invention provides a recombinant toxin and monoclonal antibody which specifically binds to glial-derived or meningioma-derived tumor cells. Also provided are various methods of screening for malignant gliomas and meningiomas. Further provided are methods of treating malignant gliomas, including glioblastoma multiforme and SOUS-164639 USPATFULL
NOVEL method of diagnosing and treating gliomas
Sonthelmer, Harald W., Birmingham, AL, UNITED STATES
SONTHELMER, Marald W., Birmingham, AL, UNITED STATES
SONTHELMER, Marald W., UNITED STATES
US 2005142062
Al 20050316 (11)
Division of Ser. No. US 2001-969618, filed on 4 Oct 2001, GRANTED, Pat. No. US 6870029 Division of Ser. No. US 1997-980395, filed on 28 Nov 1997, GRANTED, Pat. No. US 6870029 Division of Ser. No. US 1997-980395, filed on 28 Nov 187, GRANTED, Pat. No. US 5905027
US 1995-9283P
US 1995-9283P
US 1995-9283P
US 1995-9283P MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW. WASHINGTON, DC, MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC Gonda, Matthew A, Birmingham, AL, UNITED STATES Grimes, Carol A, Birmingham, AL, UNITED STATES US 2006088899 A1 20060427 US 2003-516079 A1 20030602 (10) WO 2003-US17410 20030602 PCT 371 date LN.CNT 1434
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a re 20051102 20020531 (60) 20020827 (60 20004, US Number of Claims: 17 Number of Claims: 2 Exemplary Claim: 1 Drawing Page(s) US 2002-384171P US 2002-406033P Utility astrocytomas. APPLICATION APPLICATION 20004, US 20 PRAI DT FS LREP DT FS LREP CLMN HALI PI AI RLI PI A I

CLAM Number of Claims: 14

ECL Exemplary Claim: 1

DRWN 197

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Trearment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for glalal-derived or meningioma-derived tumor cells. The current invention has extended the use of chlorotoxin. Type current invention has extended the use of chlorotoxin-cyctoxin fusion proteins to treat the whole class neuroectodermal tumors such as glidomas, pheochromocytomas, melanomas, PRNET's, small cell carcinoma of the lung. Ewing's sarcoma, and metastatic tumors in the brain. Also, diagnostic methods are provided for screening neoplastic neuroectodermal tumors. The present invention relates to weight control, control of body fat and food intake, and provides useful methods for treating, inter alia, obesity, diabetes and insulin insensitivity, and conditions, diseases, and disorders relating thereto. The invention also relates to methods of identifying useful compounds relating to weight loss, food intake, diabetes, and obesity, among other things, based on the discovery that inhibiting KVI-3 activity mediates decreased food intake, weight loss, decreased body fat, increase glucose uptake, and increased insulin sensitivity, among other things. Congostions and methods relating to glucose metabolism, weight control, and food intake methods relating to glucose metabolism, weight control, and food intake methods of the control, woodbridge, CT, UNITED STATES
Xu, Jianchao, Bethany, CT, UNITED STATES
US 2003032595
Al 2003021
US 2001-15528
Al 2003011
US 2001-297547P
20010612 (60) MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC, MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA, 19103-2921 CLMN Number of Claims: 36
BCL Exemplary Claim: 1
DRWN 12 Drawing Page (N. 12)
LN.CNT 2823
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to we: CAS INDEXING IS AVAILABLE FOR THIS PATENT. 19951227 (60) ANSWER 12 OF 18 USPATFULL ON STN 2003:45283 USPATFULL US 1995-9283P Utility APPLICATION APPLICATION PRAI DT FS LREP AI PRAI DT FS LREP TALL Z Id

The present invention provides methods of treating individuals having a pathophysiological conditions that involve the activity of matrix metalloproteinase-2/pro-MMP2 system, comprising the step of: administering to said individual a pharmaceutical composition comprising a pharmaceutically effective dose of chlorotoxin and a pharmaceutically acceptable carrier.

INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 14 OF 18 USPATFULL on STN

HIRE

Ы

Benjamin Aaron Adler, ADLER & ASSOCIATES, 8011 Candle Lane, Houston, TX,

20010626 (60)

US 2001-301019P Utility APPLICATION

PRAI DT FS LREP

CLMN Number of Claims: 27
ECL Exemplary Claim: 1
DRWN 22 Drawing Page(s)
LN.CNT 1111 Trawing Page(s)
LN.CNT 1111 A AVAILABLE FOR THIS PATENT:
CAS INDEXING IS AVAILABLE FOR THIS PATENT:
AB The present invention provides meth

MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC,

Number of Claims: 14

CLMIN

20004

AI DT FS LREP

2002.265873 USPATFULL
DIAGNOSIS AND TREATMENT OF NEUROECTODERWAL TUMORS
LYONS PH.D., SUSAN A. BIRMINGHAM, AL, UNITED STATES
SONTHEIMER, HARALD M., BIRMINGHAM, AL, UNITED STATES
SONTHEIMER, HARALD M., BIRMINGHAM, AL, UNITED STATES
US 2002146749 Al 20021010
US 1999-296031 Al 19990421 (9)
ULIILYA

SONTHEINER, HARAID W. BIRINGRAM, AL, UNITED STATES
ULLRICH, NICOLE, PAIRFIELD, CT, UNITED STATES
ULLRICH, NICOLE, PAIRFIELD, CT, UNITED STATES
US 2002071841 A1 20020661
US 1997-980395 A1 19971128 (8)
US 1997-980395 A1 19971128 (8)
No. US 5905027
US 1996-774154, filed on 26 Dec 1996, GRANTED, Pat. The present invention provides fusion proteins for the detection and treatment of neuroectodermal tumors. Previous work demonstrated that chlorotoxin is specific for glial-derived or meningioma-derived tumor cells. The current invention has extended the use of chlorotoxin-cytotoxin fusion proteins to treat the whole class neuroectodermal tumors such as gliomas, meningiomas, ependymonas, medulloblastomas, neuroblastomas, gangliomas, pheochromocytomas, melanomas, PRNET's, small cell carcinoma of the lung. Evileg's sarcoma, and metastatic tumors in the brain. Also, diagnostic methods are provided for screening neoplastic neuroectodermal tumors. MORGAN, LEWIS, AND BOCKIUS, LLP, 1800 M STREET, N.W., WASHINGTON, DC. 2002:140860 USPATFULL NOVEL METHOD OF DIAGNOSING AND TREATING GLIOMAS INDEXING IS AVAILABLE FOR THIS PATENT. ECL Exemplary Claim: 1
DRWN 15 Drawing Page(s)
LN.CMT 977
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides fusi ANSWER 15 OF 18 USPATFULL on STN 2002:140860 USPATFULL APPLICATION 20036 AI RLI TINI

PI

2003:29868 USPATFULL
Chlorotoxin inhibition of cell invasion, cancer metastasis, angiogenesis and tissue remodeling
Sontheimer, Hazald W., Birmingham, AL, UNITED STATES
Garner, Craig C., Birmingham, AL, UNITED STATES
Deshhere, Jessy, Hoover, AL, UNITED STATES
US 2003021810
US 20020-180420 Al 20020626 (10)

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 13 OF 18 USPATFULL on STN

I I I I

PI AI

The present invention provides a recombinant toxin and monoclonal antibody which specifically binds to glial-derived or meningioma-derived tumor cells. Also provided are various methods of screening for malignant gliomas and meningiomas. Further provided are methods of treating malignant gliomas, including glioblastoma multiforme and The present invention provides a recombinant toxin and monoclonal antibody which specifically binds to glial-derived or meningioma-derived tumor cells. Also provided are various methods of screening for malignant gliomas and meningiomas. Further provided are methods of treating malignant gliomas, including glioblastoma multiforme and astrocytomas. MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE NW, WASHINGTON, DC, ANSWER 17 OF 18 USPATFULL on STN
2001.20857 USPATFULL
Method of diagnosing and treating gliomas
Sontheimer, Harald W., 1704 Russet Woods Ln., Birmingham, AL, United
States 35244
Ullrich, Nicole, 628 Washington St.#3, Brookline, MA, United States US 2001-969618 Al 20011004 (9)
Divisation of Ser. No. US 1997-980395, filed on 28 Nov 1997, PENDING
Division of Ser. No. US 1996-791154, filed on 26 Dec 1996, PATENTED
US 1995-9283P ANSWER 16 OF 18 USPATFULL on STN
2002:12659 USPATFULL
NOVEL method of diagnosing and treating gliomas
Sontheimer, Harald W., Birmingham, AL, UNITED STATES
Ullrich, Nicole, Fairfield, CT, UNITED STATES
Ullrich, Nicole, Fairfield, CT, UNITED STATES
THE UAB Research Foundation (U.S. corporation)
US 200205516
US 6270059
US 2001-969618
Al 20011004 (9) CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 20 Drawing Page(s)
IN.CMT 1527
CAS INDEXING IS AVAILABLE FOR THIS PATENT:
AB The present invention provides a re INDEXING IS AVAILABLE FOR THIS PATENT. INDEXING IS AVAILABLE FOR THIS PATENT. CLMN Number of Claims: 20
ECL Exemplary Claim: 1
BDENN 20 Drawing Page(s)
LN.CNT 1533
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a ref astrocytomas. APPLICATION PRAI DT FS LREP CAS PA INTERI EISE AI RLI

Primary Examiner: Hutzell, Paula K.; Assistant Examiner: Sun-Hoffman,

EXNAM

LREP CLMN

PI AI RLI PRAI DT

Adler, Benjamin Aaron Number of Claims: 3 Exemplary Claim: 1 20 Drawing Figure(s); 20 Drawing Page(s)

Division of Ser. No. US 1995-774154, filed on 26 Dec 1996 Usility Granted

corporation) US 6028174 US 1997-980388

Method of diagnosing and treating gliomas wellod of diagnosing and treating gliomas Ullrich, Nicole, Fairfield, CT, United States Sonthelmer, Harald W., Birmingham, AL, United States UAB Research Foundation, Birmingham, AL, United States (U.S.

INDEXING IS AVAILABLE FOR THIS PATENT ANSWER 18 OF 18 USPATFULL on STN USPATFULL

2000:21668

I I I I

PA

astrocytomas.

The present invention provides a recombinant toxin and monoclonal antibody which specifically binds to glial-derived or meningioma-derived tumor cells. Also provided are various methods of screening for malignant glionas and meningionas. Further provided are methods of treating malignant gliomas, including glioblastoma multiforme and

INDEXING IS AVAILABLE FOR THIS PATENT.

CAS

The present invention provides a recombinant toxin and monoclonal antibody which specifically binds to glial-derived or meningioma-derived tumor cells. Also provided are various methods of screening for malignant gliomas and meningiomas. Further provided are methods of treating malignant gliomas, including glioblastoma multiforme and 12:52:22 ON 03 AUG 2006
53 S L2
46 DUP REMO LI3 (7 DUPLICATES REMOVED)
18 S L4 AND CANCER
24 S L6 OR L5 AND CHEMOTHERAP?
24 S L6 OR L5 AND CHEMOTHERAP?
3 S L6 AND CHEMOTHERAP?
18 S L4 AND LEMOTHERAP?
18 S L4 AND LABEL?
18 S L10 AND (CANCER OR TUMOR OR MELANOWA OR HODGKIN?
27 S L4 AND (CANCER OR TUMOR OR MELANOWA OR CARCINOMA OR HODGKIN? 'CAPLUS, USPATFULL, PCTFULL, BIOSIS, SCISEARCH, MEDLINE' ENTERED AT FILE 'REGISTRY' ENTERED AT 12:50:32 ON 03 AUG 2006
5 S MCMPCFTTDHQMARKCDDCCGGKGRGKCYGPQCLCR/SQEP
5 S MCMPCFTTDHQMARKCDDCCGGKGRGKCYGPQCLCR/SQEP (FILE 'HOME' ENTERED AT 12:37:38 ON 03 AUG 2006) ECL Exemplary Claim: 1
DRWN 20 Drawing Figure(8); 20 Drawing Pa
LIN.CMT 1434
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a re CAS INDEXING IS AVAILABLE FOR THIS PATENT. astrocytomas. FILE => d his L3 L7 L7 L10 L10 EE

US 6319891 B1 20011120 US 1997-980394 19971128 (8) Division of Ser. No. US 1996-774154, filed on 26 Dec 1996, now patented, Pat. No. US 5905027

19951227 (60)

US 1995-9283P

Utility GRANTED

PRAI DT FS EXNAM LREP CLMN ECL DRWN

Primary Examiner: Huff, Sheela Morgan, Levis & Bockius LLP Number of Claims: 35 Exemplary Claim: 1 67 Drawing Figure(8); 20 Drawing Page(s)